

MICROFLUIDIC SYSTEMS WITH ENHANCED DETECTION SYSTEMS

ABSTRACT

5 Microfluidic devices and systems having enhanced detection sensitivity, particularly
for use in non-fluorogenic detection methods, e.g., absorbance. The systems typically employ
planar microfluidic devices that include one or more channel networks that are parallel to the major
plane of the device, e.g., the predominant plane of the planar structure, and a detection channel
segment that is substantially orthogonal to that plane. The detection system is directed along the
10 length of the detection channel segment using a detection orientation that is consistent with
conventional microfluidic systems.